Naval Laser Warning Systems

Fully customizable solution for the detection and identification of laser-guided threats

In a littoral environment where attacks can be difficult to detect, Elbit Systems' extensive range of laser warning systems (LWS) provide sea vessels of all sizes with instant and accurate threat detection and identification capabilities. The LWS offers 360-degree threat coverage from laser-guided bombs and missiles, air and shore-based designators, rangefinders, beam riders and more, enhancing the ship's survivability and improving its mission effectiveness.

Range of Systems – Elbit Systems' Enhanced Laser Warning System (ELAWS), Threat Detection System (TDS) and lightweight Mini Laser Warning System (mLWS) detect, categorize and pinpoint laser sources from the ever-evolving threat to the seas. The company's range of systems allows for onboard training and includes built-in test mechanisms.

Superior Performance – With options of being incorporated into the ship's C4I system or as a stand-alone installation, the LWS features a high detection probability and a low false-alarm rate. The advanced, high-speed processing and communications capabilities, combined with electro-optical operation, ensure accurate and dependable performance in a broad range of naval platforms. In addition, the system is immune to false alarms triggered by reflections, lightning and gunfire as well as self-RF and electro-optical operations. The range of LWS are fully field-proven and in use around the world.

Highly Customizable – All of these systems incorporate an independent and user-controlled threat library and can be tailored to meet a broad range of threats and provide the required degree of accuracy. Whether installed as a stand-alone system or integrated with countermeasures, the system can be easily fitted to a wide range of naval platforms, from patrol boats to corvettes and frigates.

Elbit Systems
Land and C4I

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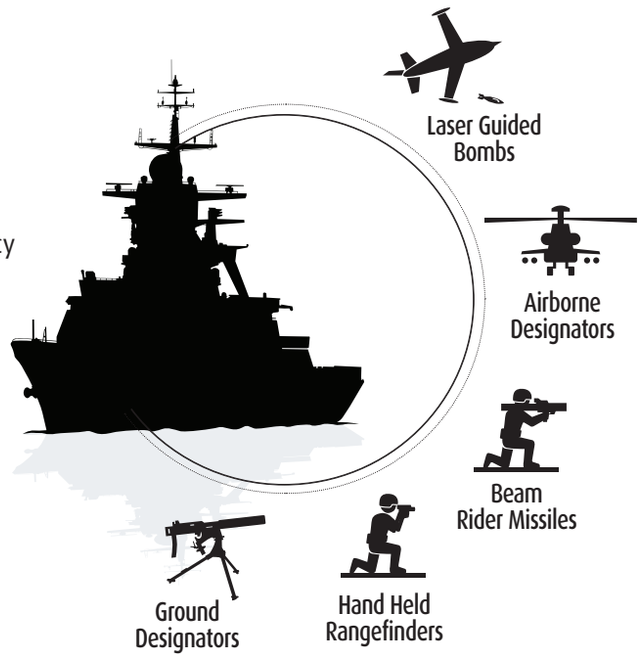


Operational Benefits

- Fully customizable to provide the required degree of accuracy
- Detects, categorizes and pinpoints laser-guided threats
- Full hemispherical active threat coverage
- Integrates with a range of advanced countermeasures
- High detection probability and low false-alarm rate

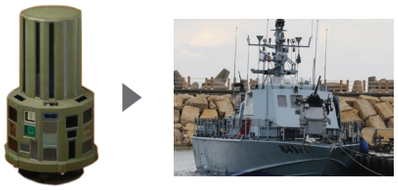
Key Features

- Independent, user-controlled threat library
- Direction indication for all types of threats
- Downloadable and erasable log files
- Onboard training available
- Built-in test mechanisms

Technical Specifications

- Direction Accuracy =up to 2°
- Elevation Coverage -10° to 85°
- Azimuth Coverage: 360°
- Spectral Range: 0.5 microns to 1.6 microns
- Ethernet/RS422/CANBUS/RS232 communications
- Meets MIL-STD-standards 461D, 462E, 810E and others

ELAWS for Frigate class vessels



TDS for Light Patrol class vessels

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